- (iv) Number of pumps for which leaks were not repaired as required in §60.482-2(c)(1) and (d)(6),
- (v) Number of compressors for which leaks were detected as described in \$60.482-3(f).
- (vi) Number of compressors for which leaks were not repaired as required in §60.482-3(g)(1), and
- (vii) The facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible.
- (3) Dates of process unit shutdowns which occurred within the semiannual reporting period.
- (4) Revisions to items reported according to paragraph (b) if changes have occurred since the initial report or subsequent revisions to the initial report.
- (d) An owner or operator electing to comply with the provisions of §§ 60.483–1 or 60.483–2 shall notify the Administrator of the alternative standard selected 90 days before implementing either of the provisions.
- (e) An owner or operator shall report the results of all performance tests in accordance with §60.8 of the General Provisions. The provisions of §60.8(d) do not apply to affected facilities subject to the provisions of this subpart except that an owner or operator must notify the Administrator of the schedule for the initial performance tests at least 30 days before the initial performance tests.
- (f) The requirements of paragraphs (a) through (c) of this section remain in force until and unless EPA, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such State. In that event, affected sources within the State will be relieved of the obligation to comply with the requirements of paragraphs (a) through (c) of this section, provided that they comply with the requirements established by the State

[48 FR 48335, Oct. 18, 1983, as amended at 49 FR 22608, May 30, 1984; 65 FR 61763, Oct. 17, 2000; 72 FR 64883, Nov. 16, 2007]

### § 60.488 Reconstruction.

For the purposes of this subpart:

- (a) The cost of the following frequently replaced components of the facility shall not be considered in calculating either the "fixed capital cost of the new components" or the "fixed capital costs that would be required to construct a comparable new facility" under §60.15: pump seals, nuts and bolts, rupture disks, and packings.
- (b) Under §60.15, the "fixed capital cost of new components" includes the fixed capital cost of all depreciable components (except components specified in §60.488 (a)) which are or will be replaced pursuant to all continuous programs of component replacement which are commenced within any 2year period following the applicability date for the appropriate subpart. (See the "Applicability and designation of affected facility" section of the appropriate subpart.) For purposes of this paragraph, "commenced" means that an owner or operator has undertaken a continuous program of component replacement or that an owner or operator has entered into a contractual obligation to undertake and complete, within a reasonable time, a continuous program of component replacement.

[49 FR 22608, May 30, 1984]

# § 60.489 List of chemicals produced by affected facilities.

The following chemicals are produced, as intermediates or final products, by process units covered under this subpart. The applicability date for process units producing one or more of these chemicals is January 5, 1981.

CAS No. a	Chemical		
105–57–7	Acetal.		
75-07-0	Acetaldehyde.		
107-89-1	Acetaldol.		
60-35-5	Acetamide.		
103-84-4	Acetanilide.		
64-19-7	Acetic acid.		
108-24-7	Acetic anhydride.		
67-64-1	Acetone.		
75-86-5	Acetone cyanohydrin.		
75-05-8	Acetonitrile.		
98-86-2	Acetophenone.		
75-36-5	Acetyl chloride.		
74-86-2	Acetylene.		
107-02-8	Acrolein.		
79-06-1	Acrylamide.		
79-10-7	Acrylic acid.		
107-13-1	Acrylonitrile.		
124-04-9	Adipic acid.		
111-69-3	Adiponitrile.		
(b)	Alkyl naphthalenes.		
107-18-6	Allyl alcohol.		

## 40 CFR Ch. I (7-1-10 Edition)

## § 60.489

107-65-1
111-41-1
223-08-8   p-Aminophenol.   88-73-3   o-chloronitrobenzene.
628-63-7, 123-         32-2         Amyl acetates.         100-00-5         p-chloronitrobenzene.           71-41-0         Amyl alcohols.         126-99-8         Chloroprene.           110-58-7         Amyl alcohols.         126-99-8         Chloroprene.           543-59-9         Amyl chloride.         108-41-8         m-chlorotoluene.           110-66-7         Amyl phenol.         108-43-4         p-chlorotoluene.           62-53-3         Aniline.         75-72-9         Chlorostifluoromethane.           12-04-1         Aniline hydrochloride.         108-39-4         m-cresol.           100-66-3         Anisidine.         95-48-7         o-cresol.           100-66-3         Anisole.         106-44-5         p-cresol.           118-92-3         Anthranilic acid.         1319-77-3         Mixed cresols.           71-43-2         Benzaldehyde.         4170-30-0         Crotoniadehyde.           71-43-2         Benzaledelionic acid.         80-15-9         Cumene hydroperoxide.           98-11-3         Benzenedisulfonic acid.         80-15-9         Cumene hydroperoxide.           98-11-3         Benzilic acid.         108-80-5         Cyanuric acid.           76-93-7         Benzilic acid.         108-80-5         Cyanuri
92-2 71-41-0
71-41-0         Amyl alcohols.         126-99-8         Chloroprene.           110-58-7         Amyl amine.         790-94-5         Chlorosulloria caid.           543-59-9         Amyl chloride.         108-41-8         m-chlorotoluene.           110-66-7*         Amyl phenol.         106-43-4         m-chlorotoluene.           62-53-3         Aniline.         79-72-9         Chlorostifluoromethane.           142-04-1         Aniline hydrochloride.         108-39-4         m-cresol.           100-66-3         Anisidine.         95-49-7         o-cresol.           118-92-3         Anthranilia caid.         1319-77-3         Mixed cresols.           118-92-3         Anthranilia caid.         1319-77-3         Mixed cresols.           71-43-2         Benzaledhyde.         4170-30-0         Crotoniadehyde.           71-43-2         Benzeledisulfonic acid.         80-15-9         Cumene.           98-48-6         Benzenedisulfonic acid.         80-15-9         Cumene hydroperoxide.           98-11-3         Benzie acid.         108-77-4         Cyanogaectic acid.           76-93-7         Benzie acid.         108-80-5         Cyanuric acid.           76-93-8         Benzoin.         110-82-7         Cyclohexanol.
10-68-7
110-66-7°   Amyl mercaptans.   95-49-8   O-chlorotoluene.
1322-06-1
Aniline   Anil
142-04-1
29191-52-4   Anisidine.   95-48-7   O-cresol.
100-66-3
B4-65-1
100-52-7   Benzamide
55-21-0         Benzanide.         3724-65-0         Crotonic acid.           71-43-2         Benzene.         98-82-8         Cumene.           98-48-6         Benzenedisulfonic acid.         80-15-9         Cumene.           98-11-3         Benzenesulfonic acid.         372-09-8         Cyanogen chloride.           76-93-7         Benzilic acid.         108-80-5         Cyanogen chloride.           65-85-0         Benzoin.         110-82-7         Cyclohexane.           100-47-0         Benzoin.         110-82-7         Cyclohexane.           100-47-0         Benzoinhone.         108-93-0         Cyclohexane.           119-61-9         Benzophenone.         108-94-1         Cyclohexanol.           98-88-4         Benzoyl chloride.         108-94-1         Cyclohexanone.           98-88-4         Benzyl alcohol.         111-78-4         Cyclohexylamine.           100-46-9         Benzyl alcohol.         111-78-4         Cyclooctadiene.           100-47-1         Benzyl alcohol.         123-42-2         Diacetone alcohol.           100-47-2         Benzyl chloride.         27576-04-1         Diaminobenzoic acid.           98-87-3         Benzyl chloride.         27576-04-1         Diaminobenzoic acid.           <
Paragraphy
98-48-6         Benzenedisulfonic acid.         80-15-9         Cumene hydroperoxide.           98-11-3         Benzenesulfonic acid.         372-09-8         Cyanoacetic acid.           134-81-6         Benzil.         506-77-4         Cyanogen chloride.           76-93-7         Benzoic acid.         108-80-5         Cyanuric acid.           65-85-0         Benzoic acid.         108-70-0         Cyanuric chloride.           110-47-0         Benzoin.         110-82-7         Cyclohexane.           100-47-0         Benzophenone.         108-93-0         Cyclohexano.           98-07-7         Benzotrichloride.         110-83-8         Cyclohexanone.           98-84-4         Benzyl chloride.         108-91-8         Cyclohexylamine.           100-51-6         Benzyl almine.         112-30-1         Decanol.           100-46-9         Benzyl amine.         112-30-1         Decanol.           100-44-7         Benzyl chloride.         27576-04-1         Diacetone alcohol.           100-44-7         Benzyl chloride.         95-76-1, 95-82-         Diaminobenzoic acid.           98-87-3         Benzyl chloride.         95-76-1, 95-82-         Diaminobenzoic acid.           98-95-4         Bisphenol A.         608-27-5,         Bisphenol A.<
Senzenesulfonic acid.   S72-09-8   Cyanoacetic acid.   Cyanogen chloride.   Cyclohexano.   Cyclohexanon.   Cyclohexanon.   Cyclohexanone.   Cycloh
Renzilic acid.   108-80-5
Benzoic acid.   108-77-0
119-63-9   Benzoin   110-82-7   Cyclohexane   (2)clohexanol   Cyclohexanol   Cyclohexalone   Cyclohexanol   Cyclohexalone   Cyclohexanol   Cyclohexanol   Cyclohexanol   Cyclohexalone   Cyclohexalon
100-47-0   Benzonitrile   108-93-0   Cyclohexanol   Cyclohexanone   119-61-9   Benzophenone   108-94-1   Cyclohexanone   Cyclohexanone   Senzyl alcohol   110-83-8   Cyclohexanone   Cyclohexanone   Cyclohexanone   Senzyl alcohol   110-83-8   Cyclohexanone   Cyclohexanone   Cyclohexanone   Senzyl alcohol   111-78-4   Cyclocatadiene   Cyclohexylamine   Cyclocatadiene   Cyclohexylamine   Cyclocatadiene   Cyclocatadiene   Diaminobenzola   Diacatona   Cyclocatadiene   Diaminobenzola   Cyclocatadiene   Diaminobenzola   Cyclocatadiene   Diaminobenzola   Cyclocatadiene   Diaminobenzola   Cyclocatadiene   Cyclocatadiene   Diaminobenzola   Diaminobenzola   Cyclocatadiene   Cyclocatadiene   Diaminobenzola   Diaminobenzola   Cyclocatadiene   Diaminobenzola   Diaminobenzol
119-61-9
98-07-7         Benzotrichloride.         110-83-8         Cyclohexene.           98-88-4         Benzoyl chloride.         108-91-8         Cyclohexylamine.           100-51-6         Benzyl alcohol.         111-78-4         Cyclohexylamine.           100-46-9         Benzyl benzoate.         112-30-1         Diacetone alcohol.           100-44-7         Benzyl benzoate.         27576-04-1         Diacetone alcohol.           98-87-3         Benzyl dichloride.         95-76-1, 95-82-         Diacetone alcohol.           98-87-3         Benzyl dichloride.         95-76-1, 95-82-         Diacetone alcohol.           98-87-3         Biphenyl.         9, 554-40-7,         Bisphenol A.         608-27-5,           80-05-7         Bisphenol A.         608-27-5,         Dichloroaniline.           10-86-1         Bromobanzene.         608-31-1,         molacetone alcohol.           106-99-0         Butadiene.         27134-27-6,         molacetone alcohol.           106-99-0         Butadiene.         57311-92-9*         modichlorobenzene.           123-86-4         n-butyl acetate.         541-73-1         modichlorobenzene.           71-36-3         n-butyl alcohol.         106-46-7         podichlorobenzene.           75-65-0         t-butyl alcoho
98-88-4         Benzoyl alcohol.         108-91-8         Cyclohexylamine.           100-51-6         Benzyl alcohol.         111-78-4         Cyclootadiene.           100-46-9         Benzyl benzoate.         112-30-1         Decanol.           120-51-4         Benzyl chloride.         27576-04-1         Diacetone alcohol.           100-44-7         Benzyl chloride.         95-76-1, 95-82-         Diaminobenzoic acid.           98-87-3         Benzyl dichloride.         95-76-1, 95-82-         Diaminobenzoic acid.           92-52-4         Biphenyl.         9, 554-00-7,         Dichloroaniline.           80-05-7         Bisphenol A.         608-27-5,         Dichloroaniline.           27497-51-4         Bromobenzene.         608-31-1,         Bromobenzene.         Formany allocolon.         Tole-99-0.         Butadiene.         27134-27-6,         Dichlorobenzene.         Tole-99-9.         In-butyl acetate.         57311-92-9°.         m-dichlorobenzene.         O-dichlorobenzene.         D-dichlorobenzene.         D-dichlorobenzene. <td< td=""></td<>
100-46-9
120-51-4   Benzyl benzoate   123-42-2   Diacetone alcohol.
100-44-7   Benzyl chloride   98-87-3   Benzyl dichloride   95-76-1, 95-82-   Diaminobenzoic acid.
98-87-3         Benzyl dichloride.         95-76-1, 95-82-         Dichloroaniline.           92-52-4         Biphenyl.         9, 554-00-7, 608-27-5, 608-27-5, 809-27-5, 8
92-52-4         Biphenyl.         9,554-00-7, 80-05-7         Biphenyl.         9,554-00-7, 80-05
80-05-7         Bisphenol A.         608-27-5,           10-86-1         Bromobenzene.         608-31-1,           27497-51-4         Bromonaphthalene.         626-43-7,           106-99-0         Butadiene.         27134-27-6,           106-98-9         1-butene.         57311-92-9°.           123-86-4         n-butyl acetate.         541-73-1         m-dichlorobenzene.           71-36-3         n-butyl acrylate.         95-50-1         o-dichlorobenzene.           78-92-2         s-butyl alcohol.         106-46-7         p-dichlorobenzene.           109-73-9         n-butylamine.         107-06-2         1,2-dichloroethyle ther.           109-73-9         n-butylamine.         96-23-1         Dichlorohydrin.           75-64-9         t-butylamine.         26952-23-8         Dichloropropropene.           98-73-7         p-tert-butyl benzoic acid.         101-83-7         Dicyclohexylamine.           107-88-0         1,3-butylene glycol.         109-89-7         Diethylamine.           107-92-6         Butyric acid.         112-36-7         Diethylene glycol diethyl ether.           106-31-0         Butyric acid.         112-36-7         Diethylene glycol diethyl ether.
10-86-1         Bromobenzene         608-31-1,           27497-51-4         Bromonaphthalene.         626-43-7,           106-99-0         Butadiene.         27134-27-6,           106-98-9         1-butene.         57311-92-9°.           123-86-4         n-butyl acrylate.         95-50-1         o-dichlorobenzene.           71-36-3         n-butyl acrylate.         95-50-1         o-dichlorobenzene.           78-92-2         s-butyl alcohol.         106-46-7         p-dichlorobenzene.           75-65-0         t-butyl alcohol.         111-44-4         Dichlorodifluoromethane.           109-73-9         n-butylamine.         107-06-2         1,2-dichloroethane (EDC).           13952-84-6         s-butylamine.         96-23-1         Dichloropropene.           98-73-7         p-tert-butyl benzoic acid.         101-83-7         Dicyclohexylamine.           107-88-0         1,3-butylene glycol.         109-89-7         Diethylamine.           107-92-6         Butyric acid.         112-36-7         Diethylene glycol diethyl ether.           106-31-0         Butyric anhydride.         111-96-6         Diethylene glycol dimethyl ether.
106-99-0         Butadiene.         27134-27-6,           106-98-9         1-butene.         57311-92-9           123-86-4         n-butyl acetate.         541-73-1         m-dichlorobenzene.           141-32-2         n-butyl acrylate.         95-50-1         o-dichlorobenzene.           71-36-3         n-butyl alcohol.         106-46-7         p-dichlorobenzene.           78-92-2         s-butyl alcohol.         75-71-8         Dichlorodifluoromethane.           109-73-9         n-butylamine.         107-06-2         1,2-dichloroethane (EDC).           13952-84-6         s-butylamine.         96-23-1         Dichloropdydrin.           75-64-9         t-butylamine.         26952-23-8         Dichloropropene.           98-73-7         p-tert-butyl benzoic acid.         101-83-7         Dicyclohexylamine.           107-88-0         1,3-butylene glycol.         109-89-7         Diethylamine.           123-72-8         n-butyraldehyde.         111-46-6         Diethylene glycol diethyl ether.           106-31-0         Butyric acid.         112-36-7         Diethylene glycol diethyl ether.
106-98-9
123-86-4         n-butyl acetate.         541-73-1         m-dichlorobenzene.           71-36-3         n-butyl acrylate.         95-50-1         o-dichlorobenzene.           77-36-3         n-butyl alcohol.         106-46-7         p-dichlorobenzene.           78-92-2         s-butyl alcohol.         75-71-8         Dichlorodifluoromethane.           109-73-9         n-butylamine.         107-06-2         1,2-dichloroethane (EDC).           13952-84-6         s-butylamine.         96-23-1         Dichlorohydrin.           75-64-9         t-butylamine.         26952-23-8         Dichloropropene.           98-73-7         p-tert-butyl benzoic acid.         101-83-7         Dicyclohexylamine.           107-88-0         1,3-butylene glycol.         109-89-7         Diethylamine.           123-72-8         n-butyraldehyde.         111-46-6         Diethylene glycol diethyl ether.           106-31-0         Butyric acid.         112-36-7         Diethylene glycol diethyl ether.
141-32-2         n-butýl acrylate.         95-50-1         o-dichlorobenzene.           77-36-3         n-butýl alcohol.         106-46-7         p-dichlorobenzene.           78-92-2         s-butyl alcohol.         75-71-8         Dichlorodifluoromethane.           75-65-0         t-butyl alcohol.         111-44-4         Dichloroethyl ether.           109-73-9         n-butylamine.         107-06-2         1,2-dichloroethane (EDC).           13952-84-6         s-butylamine.         96-23-1         Dichloropdrdin.           75-64-9         t-butylamine.         26952-23-8         Dichloropropene.           98-73-7         p-tert-butyl benzoic acid.         101-83-7         Dicyclohexylamine.           107-88-0         1,3-butylene glycol.         109-89-7         Diethylamine.           123-72-8         n-butyraldehyde.         111-46-6         Diethylene glycol.           107-92-6         Butyric acid.         112-36-7         Diethylene glycol diethyl ether.           106-31-0         Butyric anhydride.         111-96-6         Diethylene glycol dimethyl ether.
71-36-3         n-butyl alcohol.         106-46-7         p-dichlorobenzene.           78-92-2         s-butyl alcohol.         75-71-8         Dichlorodifluoromethane.           75-65-0         t-butyl alcohol.         111-44-4         Dichloroethyl ether.           109-73-9         n-butylamine.         107-06-2         1,2-dichloroethane (EDC).           13952-84-6         s-butylamine.         96-23-1         Dichlorohydrin.           75-64-9         t-butylamine.         26952-23-8         Dichloropropene.           98-73-7         p-tert-butyl benzoic acid.         101-83-7         Dicyclohexylamine.           107-88-0         1,3-butylene glycol.         109-89-7         Diethylamine.           123-72-8         n-butyraldehyde.         111-46-6         Diethylene glycol.           107-92-6         Butyric acid.         112-36-7         Diethylene glycol diethyl ether.           106-31-0         Butyric anhydride.         111-96-6         Diethylene glycol dimethyl ether.
78-92-2         s-butyl alcohol.         75-71-8         Dichlorodifluoromethane.           75-65-0         t-butyl alcohol.         111-44-4         Dichloroethyl ether.           109-73-9         n-butylamine.         107-06-2         1,2-dichloroethane (EDC).           13952-84-6         s-butylamine.         96-23-1         Dichlorohydrin.           75-64-9         t-butylamine.         26952-23-8         Dichloropropene.           98-73-7         p-tert-butyl benzoic acid.         101-83-7         Dicyclohexylamine.           107-88-0         1,3-butylene glycol.         109-89-7         Diethylamine.           123-72-8         n-butyraldehyde.         111-46-6         Diethylene glycol diethyl ether.           106-31-0         Butyric acid.         112-36-7         Diethylene glycol dimethyl ether.           Diethylene glycol dimethyl ether.
109-73-9         n-butylamine.         107-06-2         1,2-dichloroethane (EDC).           13952-84-6         s-butylamine.         96-23-1         Dichlorohydrin.           75-64-9         t-butylamine.         26952-23-8         Dichloropropene.           98-73-7         p-tert-butyl benzoic acid.         101-83-7         Dicyclohexylamine.           107-88-0         1,3-butylene glycol.         109-89-7         Diethylamine.           123-72-8         n-butyraldehyde.         111-46-6         Diethylene glycol.           107-92-6         Butyric acid.         112-36-7         Diethylene glycol diethyl ether.           106-31-0         Butyric anhydride.         111-96-6         Diethylene glycol dimethyl ether.
13952-84-6         s-butylamine.         96-23-1         Dichlorohydrin.           75-64-9         t-butylamine.         26952-23-8         Dichloropropene.           98-73-7         p-tert-butyl benzoic acid.         101-83-7         Dicyclohexylamine.           107-88-0         1,3-butylene glycol.         109-89-7         Diethylamine.           123-72-8         n-butyraldehyde.         111-46-6         Diethylene glycol.           107-92-6         Butyric acid.         112-36-7         Diethylene glycol diethyl ether.           106-31-0         Butyric anhydride.         111-96-6         Diethylene glycol dimethyl ether.
75-64-9         t-butylamine.         26952-23-8         Dichloropropene.           98-73-7         p-tert-butyl benzoic acid.         101-83-7         Dicyclohexylamine.           107-88-0         1,3-butylene glycol.         109-89-7         Diethylamine.           123-72-8         n-butyrialdehyde.         111-46-6         Diethylene glycol.           107-92-6         Butyric acid.         112-36-7         Diethylene glycol diethyl ether.           106-31-0         Butyric anhydride.         111-96-6         Diethylene glycol dimethyl ether.
98-73-7         p-tert-butyl benzoic acid.         101-83-7         Dicyclohexylamine.           107-88-0         1,3-butylene glycol.         109-89-7         Diethylamine.           123-72-8         n-butyrialdehyde.         111-46-6         Diethylene glycol.           107-92-6         Butyric acid.         112-36-7         Diethylene glycol diethyl ether.           106-31-0         Butyric anhydride.         111-96-6         Diethylene glycol dimethyl ether.
107–88-0       1,3-butylene glycol.       109–89–7       Diethylamine.         123–72–8       n-butyraldehyde.       111–46–6       Diethylene glycol.         107–92–6       Butyric acid.       112–36–7       Diethylene glycol diethyl ether.         106–31–0       Butyric anhydride.       111–96–6       Diethylene glycol dimethyl ether.
123-72-8       n-butyraldehyde.       111-46-6       Diethylene glycol.         107-92-6       Butyric acid.       112-36-7       Diethylene glycol diethyl ether.         106-31-0       Butyric anhydride.       111-96-6       Diethylene glycol dimethyl ether.
107–92–6 Butyric acid. 112–36–7 Diethylene glycol diethyl ether. 106–31–0 Butyric anhydride. 111–96–6 Diethylene glycol dimethyl ether.
109-74-0 Butyronitrile. 112-34-5   Diethylene alycol monobutyl ether
105–60–2 Caprolactam. 124–17–4 Diethylene glycol monobutyl ether
75–1–50 Carbon disulfide. tate. 558–13–4 Carbon tetrabromide. 111–90–0 Diethylene glycol monoethyl ether.
56–23–5 Carbon tetrachloride. 112–15–2 Diethylene glycol monoethyl ether
9004–35–7 Cellulose acetate.
79–11–8 Chloroacetic acid. 111–77–3 Diethylene glycol monomethyl ether.
108–42–9 m-chloroaniline. 64–67–5 Diethyl sulfate.
95-51-2 o-chloroaniline. 75-37-6 Difluoroethane.
106–47–8 p-chloroaniline. 25167–70–8 Diisobutylene.
35913-09-8       Chlorobenzaldehyde.       26761-40-0       Diisodecyl phthalate.         108-90-7       Chlorobenzene.       27554-26-3       Diisooctyl phthalate.
118–91–2, 535– Chlorobenzoic acid. 27334–26–3 Dissocityi primalate. Diketene.
80–8, 74–11– 124–40–3 Dimethylamine.
3°. 121–69–7
2136–81–4, Chlorobenzotrichloride. 115–10–6 N,N-dimethyl ether.
2136–89–2, 68–12–2
5216–25–1°. 57–14–7 Dimethylhydrazine.
1321-03-5 Chlorobenzoyl chloride. 77-78-1 Dimethyl sulfate. 25497-29-4 Chlorodifluoromethane. 75-18-3 Dimethyl sulfide.
25497–29–4   Chlorodifluoromethane. 75–18–3   Dimethyl sulfide.

## **Environmental Protection Agency**

CAS No. a	Chemical	CAS No. a	Chemical	
67–68–5	Dimethyl sulfoxide.	79–31–2	Isobutyric acid.	
120-61-6	Dimethyl terephthalate.	25339-17-7	Isodecanol.	
99–34–3	3,5-dinitrobenzoic acid.	26952–21–6	Isooctyl alcohol.	
51–28–5 25321–14–6	Dinitrophenol. Dinitrotoluene.	78–78–4 78–59–1	Isopentane. Isophorone.	
123–91–1	Dioxane.	121–91–5	Isophthalic acid.	
646-06-0	Dioxilane.	78–79–5	Isoprene.	
122-39-4	Diphenylamine.	67-63-0	Isopropanol.	
101–84–8	Diphenyl oxide.	108–21–4	Isopropyl acetate.	
102-08-9	Diphenyl thiourea.	75–31–0 75–29–6	Isopropylamine. Isopropyl chloride.	
25265–71–8 25378–22–7	Dipropylene glycol.  Dodecene.	25168–06–3	Isopropylphenol.	
28675–17–4	Dodecylaniline.	463-51-4	Ketene.	
27193-86-8	Dodecylphenol.	(b)	Linear alkyl sulfonate.	
106-89-8	Epichlorohydrin.	123–01–3	Linear alkylbenzene	(linear
64–17–5	Ethanol.	110–16–7	dodecylbenzene). Maleic acid.	
141–43–5° 141–78–6	Ethanolamines. Ethyl acetate.	108–31–6	Maleic anhydride.	
141–97–9	Ethyl acetoacetate.	6915-15-7	Malic acid.	
140-88-5	Ethyl acrylate.	141–79–7	Mesityl oxide.	
75–04–7	Ethylamine.	121–47–1	Metanilic acid.	
100–41–4	Ethylbenzene.	79–41–4 563–47–3	Methacrylic acid. Methallyl chloride.	
74–96–4	Ethyl bromide.	67–56–1	Methanol.	
9004–57–3 75–00–3	Ethylcellulose. Ethyl chloride.	79–20–9	Methyl acetate.	
105–39–5	Ethyl chloroacetate.	105–45–3	Methyl acetoacetate.	
105-56-6	Ethylcyanoacetate.	74–89–5	Methylamine.	
74–85–1	Ethylene.	100–61–8 74–83–9	n-methylaniline. Methyl bromide.	
96–49–1	Ethylene carbonate.	37365–71–2	Methyl butynol.	
107-07-3	Ethylene chlorohydrin. Ethylenediamine.	74–87–3	Methyl chloride.	
107–15–3 106–93–4	Ethylene dibromide.	108-87-2	Methylcyclohexane.	
107–21–1	Ethylene glycol.	1331–22–2	Methylcyclohexanone.	
111-55-7	Ethylene glycol diacetate.	75–09–2 101–77–9	Methylene chloride.	
110-71-4	Ethylene glycol dimethyl ether.	101–68–8	Methylene dianiline.  Methylene diphenyl diisocyanate.	
111–76–2	Ethylene glycol monobutyl ether.	78–93–3	Methyl ethyl ketone.	
112–07–2 110–80–5	Ethylene glycol monobutyl ether acetate. Ethylene glycol monoethyl ether.	107-31-3	Methyl formate.	
111–15–9	Ethylene glycol monethyl ether acetate.	108-11-2	Methyl isobutyl carbinol.	
109–86–4	Ethylene glycol monomethyl ether.	108–10–1	Methyl isobutyl ketone.	
110-49-6	Ethylene glycol monomethyl ether ace-	80–62–6 77–75–8	Methyl methacrylate. Methylpentynol.	
	tate.	98–83–9	a-methylstyrene.	
122–99–6	Ethylene glycol monophenyl ether.	110–91–8	Morpholine.	
2807–30–9 75–21–8	Ethylene glycol monopropyl ether. Ethylene oxide.	85–47–2	a-naphthalene sulfonic acid.	
60–29–7	Ethyl ether	120–18–3	b-naphthalene sulfonic acid.	
104–76–7	2-ethylhexanol.	90–15–3 135–19–3	a-naphthol	
122-51-0	Ethyl orthoformate.	75–98–9	b-naphthol. Neopentanoic acid.	
95–92–1	Ethyl oxalate.	88–74–4	o-nitroaniline.	
41892–71–1	Ethyl sodium oxalacetate.	100-01-6	p-nitroaniline.	
50–00–0 75–12–7	Formaldehyde. Formamide.	91–23–6	o-nitroanisole.	
64–18–6	Formic acid.	100–17–4	p-nitroanisole.	
110–17–8	Fumaric acid.	98–95–3 27178–83–2°	Nitrobenzene. Nitrobenzoic acid (o,m, and p).	
98-01-1	Furfural.	79–24–3	Nitroethane.	
56-81-5	Glycerol.	75–52–5	Nitromethane.	
26545–73–7	Glycerol dichlorohydrin.	88-75-5	2-Nitrophenol.	
25791–96–2 56–40–6	Glycerol triether.	25322-01-4	Nitropropane.	
107–22–2	Glycine. Glyoxal.	1321–12–6 27215–95–8	Nitrotoluene.	
118–74–1	Hexachlorobenzene.	25154–52–3	Nonene. Nonylphenol.	
67-72-1	Hexachloroethane.	27193–28–8	Octylphenol.	
36653-82-4	Hexadecyl alcohol.	123-63-7	Paraldehyde.	
124-09-4	Hexamethylenediamine.	115–77–5	Pentaerythritol.	
629–11–8 100–97–0	Hexamethylene glycol. Hexamethylenetetramine.	109–66–0	n-pentane.	
74–90–8	Hexametnylenetetramine. Hydrogen cyanide.	109–67–1 127–18–4	1-pentene Perchloroethylene.	
123–31–9	Hydroquinone.	594–42–3	Perchloromethyl mercaptan.	
	p-hydroxybenzoic acid.	94-70-2	o-phenetidine.	
99–96–7	Isoamylene.	156-43-4	p-phenetidine.	
26760-64-5				
26760–64–5 78–83–1	Isobutanol.	108-95-2	Phenol.	
26760-64-5				

#### §60.480a

CAS No. a	Chemical		
91–40–7 (b)	Phenyl anthranilic acid. Phenylenediamine.		
75–44–5	Phosgene.		
85–44–9	Phthalic anhydride.		
85–41–6 108–99–6	Phthalimide.		
110-85-0	b-picoline. Piperazine.		
9003–29–6,	Polybutenes.		
25036–29–7°.			
25322-68-3	Polyethylene glycol.		
25322–69–4 123–38–6	Polypropylene glycol. Propionaldehyde.		
79-09-4	Propionic acid.		
71–23–8	n-propyl alcohol.		
107–10–8 540–54–5	Propylamine. Propyl chloride.		
115-07-1	Propylene.		
127-00-4	Propylene chlorohydrin.		
78–87–5	Propylene dichloride.		
57–55–6 75–56–9	Propylene glycol. Propylene oxide.		
110–86–1	Pyridine.		
106-51-4	Quinone.		
108–46–3 27138–57–4	Resorcinol. Resorcylic acid.		
69–72–7	Salicylic acid.		
127-09-3	Sodium acetate.		
532–32–1	Sodium benzoate.		
9004–32–4 3926–62–3	Sodium carboxymethyl cellulose. Sodium chloroacetate.		
141–53–7	Sodium formate.		
139-02-6	Sodium phenate.		
110-44-1	Sorbic acid.		
100–42–5 110–15–6	Styrene. Succinic acid.		
110-61-2	Succinonitrile.		
121–57–3	Sulfanilic acid.		
126–33–0	Sulfolane.		
1401–55–4 100–21–0	Tannic acid. Terephthalic acid.		
79–34–5°	Tetrachloroethanes.		
117-08-8	Tetrachlorophthalic anhydride.		
78–00–2 119–64–2	Tetraethyl lead.		
85–43–8	Tetrahydronaphthalene. Tetrahydrophthalic anhydride.		
75–74–1	Tetramethyl lead.		
110-60-1	Tetramethylenediamine.		
110–18–9 108–88–3	Tetramethylethylenediamine. Toluene.		
95–80–7	Toluene-2,4-diamine.		
584-84-9	Toluene-2,4-diisocyanate.		
26471–62–5	Toluene diisocyanates (mixture).		
1333–07–9 104–15–4°	Toluenesulfonamide. Toluenesulfonic acids.		
98–59–9	Toluenesulfonyl chloride.		
26915–12–8	Toluidines.		
87–61–6, 108–	Trichlorobenzenes.		
70–3, 120–82– 1 °.			
71–55–6	1,1,1-trichloroethane.		
79–00–5	1,1,2-trichloroethane.		
79–01–6	Trichloroethylene.		
75–69–4 96–18–4	Trichlorofluoromethane. 1,2,3-trichloropropane.		
76–13–1	1,1,2-trichloro-1,2,2-trifluoroethane.		
121-44-8	Triethylamine.		
112–27–6	Triethylene glycol.		
112–49–2 7756–94–7	Triethylene glycol dimethyl ether. Triisobutylene.		
75–50–3	Trimethylamine.		
57-13-6	Urea.		
108–05–4 75–01–4	Vinyl acetate.		
75–35–4	Vinyl chloride. Vinylidene chloride.		
	• • • • • • • •		

CAS No. a	Chemical
25013–15–4 1330–20–7 95–47–6 106–42–3 1300–71–6 1300–73–8	o-xylene. p-xylene. Xylenol.

<sup>a</sup> CAS numbers refer to the Chemical Abstracts Registry <sup>a</sup>CAS numbers refer to the Chemical Abstracts Registry numbers assigned to specific chemicals, isomers, or mixtures of chemicals. Some isomers or mixtures that are covered by the standards do not have CAS numbers assigned to them. The standards apply to all of the chemicals listed, whether CAS numbers have been assigned or not. <sup>b</sup>No CAS number(s) have been assigned to this chemical, its isomers, or mixtures containing these chemicals. <sup>c</sup>CAS numbers for some of the isomers are listed; the standards apply to all of the isomers and mixtures, even if CAS numbers have not been assigned.

[48 FR 48335, Oct. 18, 1983, as amended at 65 FR 61763, Oct. 17, 2000]

Subpart VVa—Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006

Source: 72 FR 64883, Nov. 16, 2007, unless otherwise noted.

#### §60.480a Applicability and designation of affected facility.

- (a)(1) The provisions of this subpart apply to affected facilities in the synthetic organic chemicals manufacturing industry.
- (2) The group of all equipment (defined in §60.481a) within a process unit is an affected facility.
- (b) Any affected facility under paragraph (a) of this section that commences construction, reconstruction, or modification after November 7, 2006, shall be subject to the requirements of this subpart.
- (c) Addition or replacement of equipment for the purpose of process improvement which is accomplished without a capital expenditure shall not by itself be considered a modification under this subpart.
- (d)(1) If an owner or operator applies for one or more of the exemptions in this paragraph, then the owner or operator shall maintain records as required in §60.486a(i).
- (2) Any affected facility that has the design capacity to produce less than